

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT				
To: IP QINETIQ FORMALITIES Cody Technology Park Attn. Williams, A.W.S. A4 Building, Room G016 Ively Road, Farnborough Hampshire GU14 OLX UNITED KINGDOM	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION (PCT Rule 44.1)				
	Date of mailing (day/month/year) 14/08/2003				
Applicant's or agent's file reference IP/P7130/W0D	FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No. PCT/GB 03/01545	International filing date (day/month/year) 09/04/2003				
Applicant QINETIQ LIMITED					
1. X The applicant is hereby notified that the International Search Report has been established and is transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report, however, for more details, see the notes on the accompanying sheet. Where? Directly to the international Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No. (41-22) 740.14.35 For more detailed Instructions, see the notes on the accompanying sheet. 2. The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith. 3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. In o decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Further action(s): The applicant is reminded of the following: Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 900s.1 and 900s.3, respectively, before the completion of the technical preparations for International publication. Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 mon					
Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentiaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Hans Pettersson				

Form PCT/ISA/220 (July 1998)

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been in filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/msy accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims, it should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in perticular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is now;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 *Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added.*
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- (Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims): "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added," or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

it should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended, it must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.					
IP/P7130/WOD	ACTION					
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)				
PCT/GB 03/01545	09/04/2003	19/04/2002				
Applicant						
QINETIQ LIMITED						
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this international Searching Aut ansmitted to the International Bureau.	hority and is transmitted to the applicant				
This international Search Report consists X It is also accompanied by	of a total of	s report.				
1. Basis of the report						
With regard to the language, the language in which it was filed, unit	international search was carried out on the ba less otherwise indicated under this item.	asis of the international application in the				
Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of					
b. With regard to any nucleotide an was carried out on the basis of the	ad/or amino acid sequence disclosed in the in	nternational application, the international search				
	onal application in written form.					
1 ()	ernational application in computer readable for	m.				
	this Authority in written form.					
	o this Authority in computer readble form.					
the statement that the su international application a	bsequently fumished written sequence listing of as filed has been furnished.	does not go beyond the disclosure in the				
		is identical to the written sequence listing has been				
2. Certain claims were fou	and unsearchable (See Box I).					
3. Unity of invention is lac	king (see Box II).					
4. With regard to the title ,						
the text is approved as s	ubmitted by the applicant.					
I 1						
DATA COMPRESSION FOR	COLOUR IMAGES USING WAVELET	TRANSFORM				
5. With regard to the abstract,						
the text is approved as s	ubmitted by the applicant.					
the text has been establi within one month from th	shed, according to Rule 38.2(b), by this Autho se date of mailing of this international search re	ority as it appears in Box III. The applicant may, eport, submit comments to this Authority.				
6. The figure of the drawings to be put	olished with the abstract is Figure No.	1				
X as suggested by the app		None of the figures.				
because the applicant fa		•				
because this figure bette	er characterizes the invention.					

Form PCT/ISA/210 (first sheet) (July 1998)



International application No.

PCT/GB 03/01545

INTERNATIONAL SEARCH REPORT

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The invention describes a wavelet compression method for colour converted image planes (Y,Cb and Cr), wherein a relatively low (e.g. zero) degree of compression is performed in areas of an original colour image having relatively higher importance, and a relatively higher degree of compression in those areas indicated to be of lower importance. It performs a hierarchical encoding of a reduced wavelet image by discarding wavelet coefficients which satisfy the two criteria of firstly corresponding to image areas of relatively lower importance and secondly being below a certain wavelet coefficient threshold. The wavelet coefficient threshold is determined from a calculation of cumulative histogram to remove a percentage of the image and can be specified as an input parameter by a user.

Form PCT/ISA/210 (continuation of first sheet (2)) (July 1998)



International Application No PCT/GB 03/01545

A. CLASSIF IPC 7	H04N7/26 G06T9/00 G01S7/52				
According to	International Patent Classification (IPC) or to both national classifica-	ation and IPC			
B. FIELDS					
Minimum do	cumentation searched (classification system followed by classification HO4N GO6T GO1S	оп вунцов)			
Documentat	on searched other than minimum documentation to the extent that s	uch documents are included in the fields se	arched		
Electronic da	ata base consulted during the International search (name of data ba	se and, where practical, search terms used)			
EPO-In	ternal				
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No.		
Y	US 2001/024529 A1 (CHAO HONGYANG 27 September 2001 (2001-09-27) cited in the application	1-9, 11-19,21			
A	abstract page 1, paragraph 12 page 3, paragraph 44 page 3, paragraph 47 page 16, paragraph 241 - paragra	10,20			
Y A	WO 97 16021 A (SARNOFF DAVID RES 1 May 1997 (1997-05-01) abstract page 10, line 19 -page 11, line page 11, line 17 - line 20	1-9, 11-19,21 10,20			
X Fur	her documents are listed in the continuation of box C.	Patent family members are listed	in annex.		
*A' document defining the general state of the art which is not considered to be of particular relevance *E' earlier document but published on or after the international filing date *L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O' document referring to an oral disclosure, use, exhibition or other means		*T* later document published after the international filing date or priority date and not in conflict with the application but clied to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family			
	actual completion of the international search	Date of mailing of the international se	arch report		
	5 August 2003	14/08/2003			
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 Nt 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Gries, T			

Form PCT/ISA/210 (second sheet) (July 1992)



International Application No PCT/GB 03/01545

Category *	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category	Calabori of cocument, with processin, where appropriate, or the towns personal	
A	US 6 314 452 B1 (OVSIANKIN ALEXANDER ET AL) 6 November 2001 (2001-11-06) column 1, line 57 -column 2, line 20	3,4,13, 14
A	EP 0 961 494 A (SHARP KK) 1 December 1999 (1999-12-01) abstract page 4, line 11 -page 5, line 1	3,13
A	US 5 619 998 A (ABDEL-MALEK AIMAN A ET AL) 15 April 1997 (1997-04-15) abstract column 2, line 35 - line 45; figure 2 column 6, line 5 - line 10 column 6, line 42 - line 53	1-21
A	US 5 764 807 A (SAID AMIR ET AL) 9 June 1998 (1998-06-09) cited in the application the whole document	1-21
A	WO 98 40842 A (COMPUTER INFORMATION AND SCIEN) 17 September 1998 (1998-09-17) abstract page 4, line 13 - line 26 page 18, paragraph 2 page 19, last paragraph page 45, line 16 - line 36; figure 8 page 50, line 1 -page 51, line 12; figure 49	1-21

5





Information on patent family members

International Application No PCT/GB 03/01545

					1		
	ent document n search report		Publication date		Patent family member(s)		Publication date
IIS :	2001024529	A1	27-09-2001	AU	6863998	A	29-09-1998
	L0010E40E3	***	_, 0, _, ,	WO	9840842		17-09-1998
				ÜS	2002006229	A1 _	17-01-2002
WO 9	9716021	Α	01-05-1997	EP	0857389	A1	12-08-1998
	J, 1445	••		ĴΡ	11513874	T	24-11-1999
				WO	9716021	A1	01-05-1997
				US	6298167	B1	02-10-2001
				US	6483946	B1	19-11-2002
us .	 6314452	B1	06-11-2001	AU	7077600	A	26-03-2001
				EP	1218824		03-07-2002
				WO	0116764	A1	08-03-2001
EP	0961494		01-12-1999	JP	3213561	B2	02-10-2001
		••		JP	10224788		21-08-1998
				EP	0961494		01-12-1999
				US	6529636		04-03-2003
				WO	9835502	A1	13-08-1998
US	5619998	A	15-04-1997	US	5497777	' A	12-03-1996
US	5764807	A	09-06-1998	NONE			
WO.	9840842	Α	17-09-1998	AU	6863998	3 A	29-09-1998
	201001E	••	3	WO	9840842	2 A1	17-09-1998
				US	2001024529		27-09-2001
				US	2002006229) A1	17-01-2002

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